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<p>(21) International Application Number: PCT/CA00/00430</p> <p>(22) International Filing Date: 20 April 2000 (20.04.00)</p> <p>(30) Priority Data: 60/130,508 23 April 1999 (23.04.99) US</p> <p>(71) Applicant (for all designated States except US): UNIVERSITY OF GUELPH [CA/CA]; College of Biological Science, Guelph, Ontario N1G 2W1 (CA).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): FORSBERG, Cecil, W. [CA/CA]; 44 Hands Drive, Guelph, Ontario N1G 2W1 (CA). GOLOVAN, Serguei [CA/CA]; 89-252 Stone Road, Guelph, Ontario N1G 2V7 (CA). PHILLIPS, John, P. [US/CA]; General Delivery, Arkell, Ontario N0B 1C0 (CA).</p> <p>(74) Agents: CHARI, Santosh, K. et al.; Orange &amp; Chari, 4900-55 King Street West, P.O. Box 190, Toronto Dominion Bank Tower, Toronto-Dominion Centre, Toronto, Ontario M5K 1H6 (CA).</p>	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>	
<p>(54) Title: TRANSGENIC ANIMALS EXPRESSING SALIVARY PROTEINS</p>		
<p>(57) Abstract</p> <p>The invention provides a transgenic animal having within its genome a transgene construct for gastrointestinal tract specific expression of a protein. In a preferred embodiment, the protein is a phytase or a homologue thereof. Such proteins may be heterologous and may be specifically expressed in the salivary gland of the animal by operably linking the nucleic acid sequence encoding the protein with regulatory sequence including a salivary gland protein promoter/enhancer. Also provided are methods of expressing and producing proteins using such nucleic acid constructs. Further, antibodies specific to such proteins and immunological diagnostic kits are also provided.</p>		